# RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: _10/748,128A_

Source: _1Fwo_

Date Processed by STIC: _10/29/04_

# *ENTERED*

**RAW SEQUENCE LISTING**           DATE: 10/29/2004
PATENT APPLICATION:  **US/10/748,128A**      TIME: 12:40:43

Input Set : **A:\666821-058(2).TXT**
Output Set: **N:\CRF4\10292004\J748128A.raw**

```
 4 <110> APPLICANT: Reed, John C.
 5         Houghten, Richard A.
 6         Nefzi, Adel
 7         Ostresh, John M.
 8         Pinilla, Clemencia
 9         Welsh, Kate
11 <120> TITLE OF INVENTION: Methods and Compositions for
12         Derepression of IAP-Inhibited Caspase
15 <130> FILE REFERENCE: 66821-058
17 <140> CURRENT APPLICATION NUMBER: US 10/748,128A
18 <141> CURRENT FILING DATE: 2003-12-24
20 <150> PRIOR APPLICATION NUMBER: US 60/331,957
21 <151> PRIOR FILING DATE: 2001-11-21
23 <150> PRIOR APPLICATION NUMBER: US 10/302,811
24 <151> PRIOR FILING DATE: 2002-11-21
26 <160> NUMBER OF SEQ ID NOS: 16
28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 5
32 <212> TYPE: PRT
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: synthetic construct
```
W--> `38 <221> NAME/KEY: VARIANT`
```
39 <222> LOCATION: 4
40 <223> OTHER INFORMATION: Xaa = Any Amino Acid
```
W--> `42 <400> 1`
W--> `43 Gln Ala Cys Xaa Gly`
```
44  1                 5
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 4
49 <212> TYPE: PRT
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: synthetic construct
55 <400> SEQUENCE: 2
56 Asp Glu Val Asp
57  1
60 <210> SEQ ID NO: 3
61 <211> LENGTH: 4
62 <212> TYPE: PRT
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
```

```
         66 <223> OTHER INFORMATION: synthetic construct
         68 <400> SEQUENCE: 3
         69 Tyr Val Ala Asp
         70   1
         73 <210> SEQ ID NO: 4
         74 <211> LENGTH: 4
         75 <212> TYPE: PRT
         76 <213> ORGANISM: Artificial Sequence
         78 <220> FEATURE:
         79 <223> OTHER INFORMATION: synthetic construct
         81 <400> SEQUENCE: 4
         82 Ala Val Pro Ile
         83   1
         86 <210> SEQ ID NO: 5
         87 <211> LENGTH: 7
         88 <212> TYPE: PRT
         89 <213> ORGANISM: Artificial Sequence
         91 <220> FEATURE:
         92 <223> OTHER INFORMATION: synthetic construct
W-->     94 <221> NAME/KEY: AMIDATION
         95 <222> LOCATION: 7
         96 <223> OTHER INFORMATION: at the C-terminus
W-->     98 <221> MOD_RES
         99 <222> LOCATION: 1
        100 <223> OTHER INFORMATION: hydrogenated at the N-terminus
W-->    102 <400> 5
        103 Ala Val Pro Ile Ala Gln Lys
        104   1               5
        107 <210> SEQ ID NO: 6
        108 <211> LENGTH: 4
        109 <212> TYPE: PRT
        110 <213> ORGANISM: Artificial Sequence
        112 <220> FEATURE:
        113 <223> OTHER INFORMATION: synthetic peptide
        115 <400> SEQUENCE: 6
        116 Ala Val Pro Ser
        117   1
        120 <210> SEQ ID NO: 7
        121 <211> LENGTH: 6
        122 <212> TYPE: PRT
        123 <213> ORGANISM: Artificial Sequence
        125 <220> FEATURE:
        126 <223> OTHER INFORMATION: synthetic peptide
W-->    128 <221> NAME/KEY: VARIANT
        129 <222> LOCATION: (1)...(2)
        130 <223> OTHER INFORMATION: Xaa = any amino acid
W-->    132 <400> 7
W-->    133 Xaa Xaa Ala Ala Trp Trp
        134   1               5
```

```
        137 <210> SEQ ID NO: 8
        138 <211> LENGTH: 6
        139 <212> TYPE: PRT
        140 <213> ORGANISM: Artificial Sequence
        142 <220> FEATURE:
        143 <223> OTHER INFORMATION: synthetic peptide
W--> 145 <221> NAME/KEY: VARIANT
        146 <222> LOCATION: (1)...(2)
        147 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 149 <400> 8
W--> 150 Xaa Xaa Gly Ala Trp Trp
        151 1               5
        154 <210> SEQ ID NO: 9
        155 <211> LENGTH: 6
        156 <212> TYPE: PRT
        157 <213> ORGANISM: Artificial Sequence
        159 <220> FEATURE:
        160 <223> OTHER INFORMATION: synthetic peptide
W--> 162 <221> NAME/KEY: VARIANT
        163 <222> LOCATION: (1)...(2)
        164 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 166 <400> 9
W--> 167 Xaa Xaa Arg Ala Trp Trp
        168 1               5
        171 <210> SEQ ID NO: 10
        172 <211> LENGTH: 6
        173 <212> TYPE: PRT
        174 <213> ORGANISM: Artificial Sequence
        176 <220> FEATURE:
        177 <223> OTHER INFORMATION: synthetic peptide
W--> 179 <221> NAME/KEY: VARIANT
        180 <222> LOCATION: (1)...(2)
        181 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 183 <400> 10
W--> 184 Xaa Xaa Cys Lys Trp Trp
        185 1               5
        188 <210> SEQ ID NO: 11
        189 <211> LENGTH: 6
        190 <212> TYPE: PRT
        191 <213> ORGANISM: Artificial Sequence
        193 <220> FEATURE:
        194 <223> OTHER INFORMATION: synthetic peptide
W--> 196 <221> NAME/KEY: VARIANT
        197 <222> LOCATION: 1, 2
        198 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 200 <400> 11
W--> 201 Xaa Xaa Phe Trp Trp Trp
        202 1               5
        205 <210> SEQ ID NO: 12
```

```
        206 <211> LENGTH: 6
        207 <212> TYPE: PRT
        208 <213> ORGANISM: Artificial Sequence
        210 <220> FEATURE:
        211 <223> OTHER INFORMATION: synthetic peptide
W--> 213 <221> NAME/KEY: VARIANT
        214 <222> LOCATION: 1, 2
        215 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 217 <400> 12
W--> 218 Xaa Xaa Leu Trp Trp Trp
        219 1                 5
        222 <210> SEQ ID NO: 13
        223 <211> LENGTH: 6
        224 <212> TYPE: PRT
        225 <213> ORGANISM: Artificial Sequence
        227 <220> FEATURE:
        228 <223> OTHER INFORMATION: synthetic peptide
W--> 230 <221> NAME/KEY: VARIANT
        231 <222> LOCATION: 1, 2
        232 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 234 <400> 13
W--> 235 Xaa Xaa Trp Leu Trp Trp
        236 1                 5
        239 <210> SEQ ID NO: 14
        240 <211> LENGTH: 6
        241 <212> TYPE: PRT
        242 <213> ORGANISM: Artificial Sequence
        244 <220> FEATURE:
        245 <223> OTHER INFORMATION: synthetic peptide
W--> 247 <221> NAME/KEY: VARIANT
        248 <222> LOCATION: 1, 2
        249 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 251 <400> 14
W--> 252 Xaa Xaa Trp Trp Trp Trp
        253 1                 5
        256 <210> SEQ ID NO: 15
        257 <211> LENGTH: 6
        258 <212> TYPE: PRT
        259 <213> ORGANISM: Artificial Sequence
        261 <220> FEATURE:
        262 <223> OTHER INFORMATION: synthetic peptide
W--> 264 <221> NAME/KEY: VARIANT
        265 <222> LOCATION: (1)...(2)
        266 <223> OTHER INFORMATION: Xaa=any amino acid
W--> 268 <400> 15
W--> 269 Xaa Xaa Leu Lys Trp Trp
        270 1                 5
        273 <210> SEQ ID NO: 16
        274 <211> LENGTH: 68
```

RAW SEQUENCE LISTING                    DATE: 10/29/2004
PATENT APPLICATION:  US/10/748,128A     TIME: 12:40:43

Input Set : A:\666821-058(2).TXT
Output Set: N:\CRF4\10292004\J748128A.raw

```
      275 <212> TYPE: PRT
      276 <213> ORGANISM: Artificial Sequence
      278 <220> FEATURE:
      279 <223> OTHER INFORMATION: consensus sequence
W--> 281 <221> NAME/KEY: VARIANT
      282 <222> LOCATION: 1-3,6,9,10,13,14,16,18-21,24,30,32,33,35,37,40,42-44,46,
      283       47,49-51,53-57,59,61,62,64,66
      284 <223> OTHER INFORMATION: Xaa=Any amino acid
W--> 286 <221> VARIANT
      287 <222> LOCATION: 15
      288 <223> OTHER INFORMATION: Xaa=any amino acid that may or may not be present
W--> 290 <221> VARIANT
      291 <222> LOCATION: 5,17,28,29,45,68
      292 <223> OTHER INFORMATION: Xaa=a hydrophobic amino acid
W--> 294 <221> VARIANT
      295 <222> LOCATION: 7
      296 <223> OTHER INFORMATION: Xaa=serine or threonine
W--> 298 <221> VARIANT
      299 <222> LOCATION: 8,67
      300 <223> OTHER INFORMATION: Xaa=phenylalanine or tyrosine
W--> 302 <221> VARIANT
      303 <222> LOCATION: (12)...(12)
      304 <223> OTHER INFORMATION: Xaa=proline that may or may not be present
W--> 306 <221> VARIANT
      307 <222> LOCATION: (52)...(52)
      308 <223> OTHER INFORMATION: Xaa=aspartic or glutamic acid
W--> 310 <221> VARIANT
      311 <222> LOCATION: (60)...(60)
      312 <223> OTHER INFORMATION: Xaa=a basic amino acid (e.g. Arg, His, or Lys)
W--> 314 <400> 16
W--> 315 Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa
      316  1               5                  10                  15
W--> 317 Xaa Xaa Xaa Xaa Xaa Leu Ala Xaa Ala Gly Phe Xaa Xaa Xaa Gly Xaa
      318              20              25                  30
W--> 319 Xaa Asp Xaa Val Xaa Cys Phe Xaa Cys Xaa Xaa Xaa Xaa Xaa Trp
      320          35              40                  45
W--> 321 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Pro Xaa
      322      50                  55                  60
W--> 323 Cys Xaa Xaa Xaa
      324 65
```

RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 10/29/2004
PATENT APPLICATION:  US/10/748,128A     TIME: 12:40:44

Input Set : A:\666821-058(2).TXT
Output Set: N:\CRF4\10292004\J748128A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 4
Seq#:7; Xaa Pos. 1,2
Seq#:8; Xaa Pos. 1,2
Seq#:9; Xaa Pos. 1,2
Seq#:10; Xaa Pos. 1,2
Seq#:11; Xaa Pos. 1,2
Seq#:12; Xaa Pos. 1,2
Seq#:13; Xaa Pos. 1,2
Seq#:14; Xaa Pos. 1,2
Seq#:15; Xaa Pos. 1,2
Seq#:16; Xaa Pos. 1,2,3,5,6,7,8,9,10,12,13,14,15,16,17,18,19,20,21,24,28,29
Seq#:16; Xaa Pos. 30,32,33,35,37,40,42,43,44,45,46,47,49,50,51,52,53,54,55
Seq#:16; Xaa Pos. 56,57,59,60,61,62,64,66,67,68

**VERIFICATION SUMMARY**                    DATE: 10/29/2004
PATENT APPLICATION:  **US/10/748,128A**      TIME: 12:40:44

Input Set : **A:\666821-058(2).TXT**
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```
L:38  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:42  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:43  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:94  M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:98  M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:102 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:128 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:132 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:145 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:149 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:162 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:166 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:179 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:183 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:196 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:200 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:213 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:217 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:230 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:234 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:247 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:251 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:264 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:268 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:281 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:286 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:290 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:294 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:298 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:302 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:306 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:310 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:314 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:16
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:32
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:48
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:64
```